

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended) An electrode for a fuel cell comprising: a catalyst layer; and a gas diffusion layer stacked on the catalyst layer,

wherein an arithmetic average roughness Ra of the surface of the gas diffusion layer on a side in contact with the catalyst layer is 11 μm or less, and

wherein the gas diffusion layer includes a structure in which a carbon powder is charged in a porous carbon substrate.

2. (Currently Amended) The electrode for the fuel cell according to claim 1, wherein the arithmetic average roughness Ra of the surface of the gas diffusion layer on the side in contact with the catalyst layer is in a range of 0.012 to 5 μm , and

wherein the gas diffusion layer includes a structure in which a carbon powder is charged in a porous carbon substrate.

3. (Cancelled)

4. (Previously Presented) A fuel cell comprising:

a cell including a proton exchange membrane, an anode in which a catalyst layer is stacked on a gas diffusion layer and whose catalyst layer is disposed on one surface of the proton

exchange membrane, and a cathode in which the catalyst layer is stacked on the gas diffusion layer and whose catalyst layer is disposed on the other surface of the proton exchange membrane;

a first plate which is disposed opposite to the gas diffusion layer of the anode and via which a fuel gas supplied to the anode is circulated; and

a second plate which is disposed opposite to the gas diffusion layer of the cathode and via which an oxidant gas supplied to the cathode is circulated and which holds the cell together with the first plate,

wherein an arithmetic average roughness R_a of a surface of the gas diffusion layer on a side in contact with the catalyst layer is $11\text{ }\mu\text{m}$ or less.